# OVERHEAD & GANTRY CRANE CHECKLIST

OSHA 29 CFR 1910.179 • ASME B30.2 • NCCCO-CERTIFIED

For overhead, bridge, and gantry cranes — top-running, under-running, single- and double-girder. Pre-shift, monthly, and annual checks in one document.

| | | | |
|---|---|---|---|
| **Crane / Unit ID:** _____ | **Make / Model:** _____ | **Date:** _____ | **Inspector:** _____ |

## Pre-Shift / Daily Inspection Checklist

*Competent person, before each shift — the daily portion of the frequent inspection under OSHA 1910.179(j)(2).*

### Hoist, Rope / Chain & Hook

- ☐ Hoist brake holds the load
- ☐ Wire rope or load chain for wear and broken wires
- ☐ Rope reeving and spooling on the drum
- ☐ Hook — cracks, throat opening, twist; latch operates and holds

### Controls & Safety Devices

- ☐ Pendant or radio controls and labeling
- ☐ Upper-limit switch stops the hook
- ☐ Overload and warning devices
- ☐ Bumpers, end stops, and the e-stop
- ☐ Warning horn or light on travel

### Leaks, Lines & Function

- ☐ Air or hydraulic lines for leaks
- ☐ Bridge and trolley travel smooth, no drift
- ☐ Odd noise, heat, or vibration

## Monthly Documented Inspection Checklist

*Competent person — the monthly portion of the frequent inspection under OSHA 1910.179(j)(2). Document for hoists used to lift people or near rated load.*

### Rope, Chain & Hook

- ☐ Wire rope or load chain along its full length
- ☐ Hook measured for throat opening and wear
- ☐ Load block, equalizer, and reeving

### Brakes & Drive

- ☐ Hoist brake holds and releases
- ☐ Bridge and trolley brakes and travel
- ☐ Gearing and couplings — function and noise

### Function & Devices

- ☐ Limit switches and interlocks

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- [ ] Controls and contactors
- [ ] Festoon, conductor bar, and power feed — visible condition

### Record

- [ ] Date, crane ID, and inspector name
- [ ] Findings and any item pulled from service
- [ ] Signature on file

## Annual / Periodic Inspection Checklist

*Qualified person, every 1 to 12 months by service class — the periodic inspection under OSHA 1910.179(j)(3). Documented.*

### Structure & Runway

- [ ] Runway rails, splices, joints, and end stops
- [ ] End trucks, wheels, and bumpers
- [ ] Bridge girders, welds, and camber
- [ ] Bolted, riveted, and pinned connections
- [ ] Deformed, cracked, or corroded members

### Drive & Mechanical

- [ ] Bridge and trolley drive, gearing, and couplings
- [ ] Brakes for wear and adjustment
- [ ] Sheaves, drums, shafts, and bearings
- [ ] Shafts, bolts, and rivets for looseness

### Hoist & Load Path

- [ ] Wire rope or load chain to ASME B30.2 / B30.16 limits
- [ ] Hook measured for throat opening and wear
- [ ] Load block, equalizer, and reeving
- [ ] Chain and sprockets, where fitted

### Electrical & Safety

- [ ] Festoon, conductor bar, and power feed
- [ ] Contactors, controllers, and wiring
- [ ] Limit switches and interlocks
- [ ] Load-rating and capacity markings legible

## Wire-Rope Removal Criteria — ASME B30.30

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| Wire-Rope Condition | Running Rope | Standing / Pendant |
|---|---|---|
| Broken wires, randomly distributed | 6 in one lay, or 3 in one strand | 3 in one lay |
| Broken wire at an end connection | Remove or re-socket | 1 or more — remove |
| Diameter loss, corrosion, heat | Past maker / ASME limit | Past maker / ASME limit |
| Kinking, crushing, birdcaging | Remove | Remove |


**Disclaimer:** This checklist is a free educational field aid, not professional or legal advice. It does not replace the documented inspection by a qualified person that OSHA and ASME require, and it does not cover every condition on every machine — always follow the manufacturer's manual and the current OSHA / ASME standards. Use at your own risk; 3P Safety Inspections assumes no liability for its use. Take any crane with a safety defect out of service until a qualified person clears it.



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